

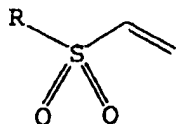
NON-AQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY
USING THE SAME

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ABSTRACT OF THE DISCLOSURE

10 A non-aqueous electrolyte comprising (i) a non-
aqueous solvent, especially mainly composed of a cyclic
carbonate and a cyclic ester and optionally a linear
carbonate, and (ii) an electrolyte salt, especially
LiBF₄, dissolved therein and (iii) a vinyl sulfone
derivative having the formula (I):

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(I)

20 wherein R indicates a C₁ to C₁₂ alkyl group, C₂ to C₁₂
alkenyl group, or C₃ to C₆ cycloalkyl, and also a lithium
secondary battery using the same are disclosed.